IN THE CLAIMS:

Please amend the claims as follows:

1 (Currently Amended) In a machine vision system having a plurality of distinct and 1. 2 separate vision processors (VPs), each VP being on a respective VP computing platform, and at least one distinct and separate machine vision user interface (UI), the at least one distinct and 3 4 separate machine vision UI being on a respective distinct and separate machine vision UI 5 computing platform, a method for instructing a machine vision UI in communication with a first distinct and separate VP to establish communication with a second distinct and separate VP, the 6 7 method comprising: 8 providing a first distinct and separate VP with a link function, the first distinct and 9 separate VP being on a first respective distinct and separate VP computing platform connected to 10 a network, the link function being a control function executable by the first distinct and separate 11 VP, 12 the link function being both for enabling a user to configure any second distinct and 13 separate VP connected to the network using the at least one distinct and separate machine vision 14 UI on a respective distinct and separate machine vision UI computing platform connected to the 15 network, and for establishing communication via the network between the any second distinct 16 and separate VP of the plurality of VPs and the at least one distinct and separate machine vision UI on the respective distinct and separate machine vision UI computing platform, the any second 17 18 distinct and separate VP being on a second respective distinct and separate VP computing 19 platform,

- 20 the communication via the network established by the link function enabling a
- 21 continually updated image display on the at least one distinct and separate machine vision UI
- 22 representing a current state of the any second distinct and separate VP connected to the network;
- 23 and
- 24 executing the link function so as to issue instructions via the network from the first
- 25 distinct and separate VP to the distinct and separate machine vision UI to establish
- 26 communication via the network with the any second distinct and separate VP.
- 1 2. (Previously Presented) The method of claim 1, wherein the link function includes:
- 2 a VP control function having a plurality of parameters, including at least an identifier of
- 3 the second VP.
- 1 3. (Previously Presented) The method of claim 1, wherein executing the link function
- 2 includes:
- 3 clicking on a graphical representation of the link function displayed by the machine
- 4 vision UI.
- 1 4. (Previously Presented) The method of claim 3, wherein the graphical representation of
- 2 the link function is an underlined text string displayed by the machine vision UI.
- 1 5. (Previously Presented) The method of claim 1, wherein instructions from the first VP to
- 2 the machine vision UI includes:

3	a plurality of parameters, including at least an identifier of the second VP, and at least		
4	one of a description of a view of the second VP, and a cursor position of the second VP.		
,	(Device de Devents I) The mode of a Calcius Lanks with some dies the light Carolina in		
1	6. (Previously Presented) The method of claim 1, wherein executing the link function is		
2	initiated by a user.		
1	7. (Previously Presented) The method of claim 6, wherein executing the link function is		
2	initiated by a user via the at least one machine vision UI.		
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1	8. (Previously Presented) The method of claim 7, wherein the at least one machine vision		
2	UI includes a check box.		
1	9. (Previously Presented) The method of claim 7, wherein the at least one machine vision		
	UI includes a radio button.		
2	Of includes a radio button.		
1	10. (Previously Presented) The method of claim 1, wherein executing the link function is		
2	initiated by an external event.		
,	11 (Ocional) The mate deficient to school the extend continue in the school of		
1	11. (Original) The method of claim 10, wherein the external event is an industrial process		
2	event.		

(Previously Presented) The method of claim 10, wherein the external event is a change

in the state of a sensor.

1	13.	(Previously Presented) The method of claim 1, wherein executing the link function is	
2	initiated by a programmatic decision		
1	14.	(Previously Presented) The method of claim 1, wherein executing the link function is	
2	initiate	d by a human decision.	
1	15.	(Previously Presented) The method of claim 1, wherein executing the link function	
2	includes:		
3		including the link function in a function execution sequence of the VP.	
1	16.	(Previously Presented) The method of claim 1, wherein the link function also terminates	
2	comm	unication with the first VP in addition to establishing communication with the second VP.	
1	17.	(Previously Presented): The method of claim 1, wherein the link function enables local	
2	dynamic display of images provided by a camera of the second VP on the at least one machine		
3	vision UI.		
1	18.	(Canceled)	
1	19.	(Canceled)	

1 (Currently Amended) In a machine vision system having a plurality of distinct and 20. 2 separate vision processors (VPs), each VP being on a respective distinct and separate VP 3 computing platform and at least one distinct and separate machine vision user interface (UI), the 4 at least one distinct and separate machine vision UI being on a respective distinct and separate 5 machine vision UI computing platform, a method for instructing a machine vision UI in communication with a first distinct and separate VP to establish communication with a second 6 7 distinct and separate VP, the method comprising: 8 providing a graphical representation, included in the at least one distinct and separate 9 machine vision UI, the graphical representation being adapted to respond to user action so as to 10 cause the first distinct and separate VP on a first respective distinct and separate VP computing 11 platform connected to a network to instruct the at least one distinct and separate machine vision 12 UI on a respective distinct and separate machine vision UI computing platform connected to the 13 network to establish communication via the network with any second distinct and separate VP on 14 a second respective distinct and separate VP computing platform connected to the network. 15 the communication via the network enabling a continually updated image display on the 16 at least one distinct and separate machine vision UI representing a current state of the any second

distinct and separate VP, and enabling a user to configure the any second distinct and separate

(Canceled)

VP using the distinct and separate machine vision UI.

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1 21.

- 1 22. (Previously Presented) The machine vision system of claim 20, wherein the network
- 2 supports a TCP/IP network protocol.
- 1 23. (Previously Presented) The machine vision system of claim 20, wherein the user action
- 2 includes selecting the graphical representation.
- 1 24. (Previously Presented) The machine vision system of claim 20, wherein the user action
- 2 is a mouse click upon the graphical representation.
- 1 25. (Original) The machine vision system of claim 20, wherein the graphical representation
- 2 is an underlined text string.
- 1 26. (Currently Amended) A user interface (UI) for a machine vision system having a
- 2 plurality of distinct and separate vision processors (VPs) including a first distinct and separate
- 3 VP on a first respective distinct and separate VP computing platform, and a second distinct and
- 4 separate VP on a second respective distinct and separate VP computing platform, the user
- 5 interface comprising:
- 6 a spread sheet; and
- 7 a graphical representation, the graphical representation being incorporated in the
- 8 spreadsheet, the graphical representation being adapted to respond to user action so as to cause a
- 9 first distinct and separate VP on a first respective distinct and separate VP computing platform to
- 10 instruct the UI to establish communication via a network with any second distinct and separate
- 11 VP of the plurality of VPs on a second respective distinct and separate VP computing platform,

- 12 the communication via the network enabling a continually updated image display on the UI
- 13 representing a current state of the any second distinct and separate VP, and enabling a user to
- 14 configure the any second distinct and separate VP using the at least one UI.
- (Previously Presented) The user interface (UI) of claim 26, wherein the graphical
- 2 representation is further adapted to respond to user action so as to cause the UI to terminate
- 3 communication with the first VP of the plurality of VP.
- 1 28. (Original) The user interface (UI) of claim 26, wherein the graphical representation is an
- 2 underlined text string.
- 1 29. (Original) The user interface (UI) of claim 26, wherein the graphical representation is an
- 2 ionic representation
- 1 30. (Currently Amended) A machine vision system comprising:
- 2 a plurality of distinct and separate vision processors (VPs), each VP being on a respective
- 3 distinct and separate VP computing platform connected to a network;
- 4 at least one distinct and separate machine vision user interface (UI), the at least one
- 5 distinct and separate machine vision user interface (UI) being on a respective distinct and
- 6 separate machine vision UI computing platform connected to the network, the machine vision UI
- 7 being in communication via the network with a first distinct and separate VP of the plurality of
- 8 VPs on a first respective distinct and separate computing platform, the machine vision UI
- 9 including:

- 10 a graphical representation visible to a user, the graphical representation being adapted to
- 11 respond to user action so as to cause the first distinct and separate VP to instruct the distinct and
- 12 separate machine vision UI to establish communication via the network with any second distinct
- 13 and separate VP of the plurality of VPs on a second respective distinct and separate computing
- 14 platform, the communication via the network enabling a continually updated image display on
- 15 the distinct and separate machine vision UI representing a current state of the any second VP,
- 16 and enabling a user to configure via the network the any second distinct and separate VP using
- 17 the distinct and separate machine vision UI.
- 1 31. (Canceled)
- 1 32. (Previously Presented) The machine vision system of claim 30, wherein the network
- 2 supports a TCP/IP network protocol.
- 1 33. (Original) The machine vision system of claim 30, wherein user action is a mouse click
- 2 upon the graphical representation.
- 1 34. (Original) The machine vision system of claim 30, wherein the graphical representation
- 2 is an underlined text string.